

GOBERMAN, P.N.

Allowances for metric thread with gaps. Standardization 27
no.3:12-16 Mr '63. (MIRA 16:4)
(Screw threads, Standard)

GOBERMAN, P.N.

Using screw threads with gaps for the application of protective coatings. Standartizatsiia 27 no.12:9-14 D '63. (MIRA 17:4)

ABADZHI, K.I.; BOYTSOV, A.N.; VOLOSEVICH, F.P.; COBERMAN, P.N.;
KEMPINSKIY, M.M.; KUTAY, A.K.; NARINSKIY, F.I.; ODING,
G.A.; TAYTS, B.A.; RUBINOV, A.D.; SHTYURMER, G.A.;
ERZHEZINSKIY, M.L., kand. tekhn. nauk, retsenzent;
SHALAYEVSKIY, O.V., red.; LEYKINA, T.L., red.izd-va;
SPERANSKAYA, O.V., tekhn. red.

[Handbook on production control in the machinery industry]
Spravochnik po proizvodstvennomu kontroliu v mashinostro-
enii. Izd.2., perer. i dop. Moskva, Mashgiz, 1964. 748 p.
(MIRA 17:3)

GOBERMAN, P.N.

Establishing allowances for open dimensions. Standartizatsiia
28 no.3:20-21 Mr'64. (MIFA 17:5)

ARMY,

Trace 10-18. System of allowances and fits. Standardizatsia
20-19. 1969. 1969. (MIRA 18:4)

GOBERMAN, Tat'yana Nikolayevna; EPSHTEYN, B.S., inzh., red.; FREGER, D.P.,
red. izd-va; GVIRTS, V.L., tekhn. red.

[Using automatic photoelectric devices at the Izhora Plant] Primenenie
fotoelektricheskoi avtomatiki na Izhorskom zavode. Leningrad, 1960.
14 p. (Leningradskii Dom nauchno-tekhnicheskoi propagandy. Obmen pere-
dovym opytom. Seriya: Pribory i elementy avtomatiki, no.14)
(MIRA 14:8)

(Kolpino—Machinery industry)
(Photoelectric measurements)

GOBERMAN, V.A., kandidat tekhnicheskikh nauk; GOBERMAN, L.A., kandidat tekhnicheskikh nauk.

Using automobiles in farming. Mekh. i elek.sel'khoz. no.4:76-85 Ap '53.
(MIRA 6:5)
(Motor trucks)

GOBERMAN, V. A., Acad.

Agricultural Machinery

Conditions for effective use of conveying machinery in agriculture. Dokl.
Akad. sel'khoz. 18, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Uncl.

BOBENKOV, V. A. , Candidate of Agricultural Sciences, All-Union Scientific Center
Institute of Mechanization of Agriculture

"Concerning Research in Organizational Works of Automobile and Harvesting
Aggregates"

Doklady Vsesoyuznogo Ordena Lenina Akademii Sel'skokhozyaystvennykh Nauk imeni V. I.
Leninga, No 1, 1956, pp 30-33, Uncl

GOERMAN, V. A. kand. tekhn. nauk

Specifying the methods for calculating the productivity of
an automobile park. Avt. transp. 37 no.7:51 J1 '59.

(MIRA 12:10)

(Transportation, Automotive)

GOBERMAN, Vitaliy Aleksandrovich; GOBERMAN, Lev Aleksandrovich;
KRAMARENKO, G.V., red.; TIKHOMIROV, N.N., retsenzent;
SEDOVA, A.P., red. izd-va; MAL'KOVA, N.V., tekhn. red.

[Mechanization of loading and unloading operations in transporting agricultural loads] Mekhanizatsiia pogruzochno-razgruzochnykh rabot pri perevozkakh sel'skokhoziaistvennykh грузов. Pod red. G.V.Kramarenko. Moskva, Nauchno-tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1961. 286 p.

(MIRA 15:2)

1. Zaveduyushchiy kafedroy Moskovskogo avtomobil'no-dorozhnogo instituta (Kramarenko).
 2. Zaveduyushchiy kafedroy Moskovskogo inzhenerno-ekonomicheskogo instituta (for Tikhomirov).
- (Loading and unloading) (Farm produce--Transportation)

GOBERMAN, V.A., kand.tekhn.nauk

Increase in the efficiency in utilizing transportation means in agriculture. Mekh.i elek.sots.sel'khoz, 20 no.4:31-33 '62.

(MIRA 15:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mekhanizatsii sel'skogo khozyaystva.

(Agriculture--Transportation)

GOBERMANN, J.; MEZEI, Gabor, dr.

Questions relating to the development of the intercity motor vehicle transportation in the Soviet Union. Kozleked kozl 18 no.47:849-850 25 N '62.

1. Moszkvai Tanacs Vegrehajto Bizottsaga Gepjarmukozlekedesi Felgazgatosaga vezetoje (for Gobermann).

U/011/01/010/003/003/000
3149/3102

AUTHOR: Gobean, P.

TITLE: Use of radioactive isotopes in determining the compactness of concretes manufactured from local materials

PERIODICAL: Referativnyi zhurnal. Khimiya, no. 3, 1962, 5-1, abstract 3X351 (Lucheni stiiint. Inst. politehn. Cluj. Cluj, 1960, 117 - 139)

TEXT: The compactness of concrete manufactured from local materials was determined by passing gamma rays through it. The experimental data correspond closely to the theoretical. With the correct setting up of the apparatus an accuracy of 1% was possible. (Abstracter's note: Complete translation.) ✓

Card 1/1

GOBESZ, F.

Utilization of radiations in the determination of nonhomogeneities
in reinforced concrete parts. Bul stint polit Cluj 6:135-147 '63.

Contributions to fault detection in reinforced concrete elements
by radiography. Ibid.:149-169

GOBESZ, F.

A photometric method of gammagraph interpretation. Bul
stint polit Cluj no.7:1C3-111 '64.

VOZNASENSKIY, Boris Nikolayevich; ZATNCHKOVSKIY, Yevgeniy Andreyevich;
PRITKOVA, Zoya Il'inichna; SOLOV'YEV, Shaya Grigor'yevna;
GOBETS, P.T., otv.red.; PETROVA, V.Ye., red.; MARKOCH, K.G.,
tekhn.red.

[Apparatus for semiautomatic long-distance telephone systems]
Apparatura poln'avtomaticheskoi meshdugorodnoi telefonnoi svyazi.
Moskva, Gos.izd-vo lit-ry po voprosam svyazi i radio, 1958. 71 p.
[___Catalog of schematic drawings] ___Al'bom skhem. 1958. 23 p.
(MIRA 12:2)

(Telephone, Automatic--Equipment and supplies)

GINZBURG, Yakov Yur'yevich; GOBETS, P.T., otv.red.; RYAZANTSEVA, M.M.,
red.; KARABILOVA, S.F., tekhn.red.

[Long-distance telephone conference communication] Gruppovaya
meshdugorodnaya telefonnaya svyaz'. Moskva, Gos.isd-vo lit-ry po
voprosam svyazi i radio, 1960. 21 p. (MIRA 14:1)
(Telephone)

BULGARIA/Zooparasitology - Tick and Insect Vectors of Disease .. G
Agents.

Abs Jour : Ref Zhur Biol., No 1, 1959, 1024

Author : Verbev, P., ~~Gibey, Ya.~~

Inst : V. Chervenkov Higher Medical Institute

Title : Experiments on the Chemical Extermination of Cockroaches

Orig Pub : Nauchni tr. Vissh. med. in-t "V. Chervenkov". Profilakt.
katedri, 1954 (1956), 2, No 4, 45-59

Abstract : In laboratory experiments showing the action of 1% DDT
powder on the oriental and red cockroaches (G) for 1
minute, 95% of the insects were killed; with constant
contact 100% were killed after 48 hours. The effect of
a 5% solution and a 5% emulsion of DDT was practically
the same: G were completely eradicated in 72 hours.
In the treatment of food areas with 5% kerosene solution

Card 1/2

- 31 -

STOJILJKOVIC, S.; ~~GOBICEVIC, Dj.~~

A case of serum neuritis. Srpski arh.celok.lek. 83 no.2:259-264
feb. '55.

1. Neuropsihijatrijska klinika Medicinskog fakulteta u Beogradu.
Upravnik: prof. dr Uros Jekic.

(NEURITIS, etiol. & pathogen.

tetanus antitoxin inject.(Ser))

(VACCINES AND VACCINATIONS, inj.eff.

tetanus antitoxin causing neuritis (Ser))

(TETANUS

antitoxin, causing neuritis (Ser))

POLAND

GORLEC, KAZIMIERZ, Registrar; chief of the Drugs Management Section, Department of Pharmacy, Ministry of Health and Public Welfare (Wydział Gospodarki Lekiem Dep. Farmacji Min. Zdrowia i Opieki Społecznej)

"Pharmaceutical Symposium of the CEMA Countries."

Warsaw, Farmacja Polska, Vol 18, No 23, 10 Dec 62, p 576

Abstract: Brief report on symposium held in Sofia on 25-27 Sep 62, listing principal speakers and topics. No references.

1/1

005 RDP 86-00513R000615510020-1

Colloidal properties of various surface-active substances
as dependent on the length of the ethylene oxide chain present
in their composition. Koll. zhur. 26 no.4:417-424 J1-Ag '64.
(MIRA 17:9)

I. N. Nizhnikova, Leningradskiy Institut tekhnik i obshchestva,
pered Kypskoye, Kypskoye Narodnaya Respublika.

Z/011/62/019/003/003/004
E112/E353

AUTHORS: Gobjilă, A.G. and Popescu, F.S.

TITLE: Efficiency of demulsifiers of the alkoxy-aryl-
polyglycolether-type

PERIODICAL: *Chimie a chemická technologie; Přehled technické
a hospodarské literatury*, v.19, no. 3, 1962, 134,
abstract Ch 62-1831 (*Khim. tekhnol. topliv*, v.6,
no. 12, 1961, 21 - 27)

TEXT: It was demonstrated in a series of experiments with
products of the above type that the demulsifying action increases
to a maximum with an increase of the number of ethylene-oxide
groups. Further increase in ethylene-oxide groups will reduce
the efficiency of the demulsifier. Products with shorter alkyl
chains are also more active and it was found immaterial whether
they were attached to a phenol or cresol structure. Generally,
derivatives of alkyl-cresols were found more active than those
derived from alkyl-phenols. The abstracted work is connected
with the demulsification of petroleum.
4 diagrams, 5 tables, 14 literature references.

[Abstracter's note: Complete translation.]

Card 1/1

23529

188310

1138,4016,1087

R/007/61/012/006/001/003
D015/D105

AUTHORS: Gobjilă, A.G., Engineer and Ludoșan, E.

TITLE: Electrochemical methods in corrosion research

PERIODICAL: Petrol și Gaze, v. 12, no. 6, 1961, 261-266

TEXT: The article describes the results obtained by the I.C.F.E. corrosion research laboratory in Cimpina in the research on electrochemical corrosion processes, particularly on the investigation of the electrokinetic phenomenon and on the presentation and interpretation of polarization curves of galvanic couples. The purpose of this research was to find adequate protection for depth pumps using corrosion inhibitors. To obtain the necessary characteristics for the interpretation of polarization curves various electrical operation diagrams are used; the one most frequently used is the one quoted by M. Ciortea (Ref. 6: Petrol și Gaze, 9, 1958, no. 9, Sept. p. 414-425). Since the decisive factor in the establishing of appropriate characteristics is the electrolytic cell, such a cell has to meet certain requirements with regard to material, the cathodic and

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R/007/61/012/006/001/003
D015/D105

X

Electrochemical methods

anodic areas, formation of couples and gas evacuation without admission of oxygen from the atmosphere. The sample must have a smooth and precisely defined surface, while the electrodes must be shaped and placed so as to insure a uniform electric field. The Luggin electrolytic bridge used for the electrical connection of the sample surface, with the measuring electrode, must be close to the surface of the electrode to avoid formation of additional resistances within the cell circuit. In the experiments conducted at the I.C.F.E. laboratory, various types of electrolytic cells were used, including the Berzelius beaker containing a metallic electrode, a non-polarizable platinum or carbon electrode and the Luggin bridge. Some complex electrolytic cells were also tested and gradually improved in the course of experiments, on the basis of data obtained by experience and in accordance with pertinent literature. Two of such cells are shown in Fig. 1 and 2. A comparison between the results obtained with a simple cell and an H improved cell in relation to the amount of inhibitor used is shown in Fig. 3. There are three methods for interpreting polarization

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R/007/61/012/006/001/003
D015/D105

Electrochemical methods

curves, i.e. the two tangent method, the method of a tangent and a horizontal lead from the stationary potential point, and the comparative method of a given potential. The last consists in determining the current from a diagram of cathodic polarization and shows the value of the corrosion current. Research on the selection of an adequate method for calculating the corrosion current, was made on the basis of comparison with the classical method, establishing the loss of weight of sample. The method of establishing corrosion reduction or increase by determining the current of the couple at a given constant potential, supplied reproducible values due to the reduction to a minimum of the subjective appreciation influencing the representation of curves and due to the fact that data are obtained from the region of the depolarization by hydrogen. These facts make the method of determining the current of the couple at a constant selected potential, suitable for inhibiting corrosion of oil well bottom-hole equipment, since at the bottom the penetration of oxygen is limited. This method which allows a suitable selection of the type and amount of

Card 3/7

GOBJILA, A. G., ing.

Disemulsification of crude oil. Influence of the paraffin contained
in oil upon stability of the latter. Petrol si gaze 12 no.10:
454-457 0 '61.

(Petroleum) (Emulsions) (Paraffins)

LUDOSAN, E.; GOBJILA, A.G.

Preventing the corrosion on the bottom equipment by means of inhibitors. Petrol si gaze 13 no. 4:182-186 Ap '62.

GOBJILA, A.G. _

Problem of colloidal chemistry in the oil industry, Petrol
si gaze 13 no.6:275-279 Je '62.

COUNTRY : ROMANIA
 CATEGORY : Cultivated Plants. Cereals. M
 RES. JOUR. : RZhBiol., No. 23 1958, No. 104643
 AUTHOR : Lazarescu, E., Bulinaru, V., Gobjile, M.
 INST. : Galatsa Agronomical Institute.
 TITLE : The Influence of the Treatment of Seeds with Ultra-Sound
 on the Germination and Biochemical Processes in Corn.
 ORIG. PUB. : Probl. agric., 1957, 2, No. 6, 65-68
 ABSTRACT : Treatment of corn seeds (in the experimental field in Ur-
 lyaska-Galats, Agronomical Institute in Galatsa) with ul-
 tra-sound of higher frequency and an intensity of 60-80
 decibels for 6 minutes contributed to the increase in the
 seed germination to 100%, to good growth and development,
 and also to a reduction in the vegetation period in corn
 (variety IKAR-54). Plants grown from seeds treated with
 ultra-sound (3-9 minutes) proved to be more stable, vigor-
 ous and viable, and were less vulnerable to diseases than
 the control plants. The effect of ultra-sounds on corn
 seeds induces changes in the stored matter in seeds (starch, proteins, and fats). --Ye. T. Zhukovskaya

CARD:1/1

GOSJILA, W.

Possibilities of achieving in Romania purification of waste water by using it in agriculture. p. 39.

HIDROTEHNICA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor din Romania) Bucuresti, Romania. Vol. 4, no. 2, Feb. 1959.

Monthly List of East European Accessions (EMEA) 10, vol. 3, no. 7, July 1959.

Uncl.

1. GOBKIN, S.I., VOLKOV, S.S., M. GUCHIY, L.N.
2. USSR (600)
4. Magnesium Alloys
7. Possibility of broad use of magnesium forgings in machine industry.
Dokl. AN SSSR 86 no. 5 1952

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ACC NR: AT6023737 (N) SOURCE CODE: UR/2755/66/000/005/0051/0059

AUTHOR: Yevstyukhin, A. I. (Doctor of technical sciences); Godin, Yu. G.; Yakovleva, V. B.

ORG: none

TITLE: Investigation of alloys of the Nb-Zn system

SOURCE: Moscow. Inzhenerno-fizicheskiy institut. Metallurgiya i metallovedeniye chistykh metallov, no. 5, 1966, 51-59

TOPIC TAGS: niobium, niobium alloy, zinc containing alloy, alloy composition, alloy hardness, phase composition, niobium zinc system

ABSTRACT: A series of binary Nb-Zn alloys containing 1.9—52.7% Nb were melted from 99.8%-pure Nb and chemically pure Zn in argon-filled airtight crucibles held at 1150C for 20 hr. Alloys containing up to 20% Nb were dense. Those with a higher niobium content were porous. Alloys with the highest Nb content (96.9%) were made by remelting in an arc furnace. Metallographic examination showed that niobium-poor alloys consisted of zinc and a NbZn₃ phase which increased in amount with increasing Nb content in the alloy. In an alloy containing 28.4% Nb, an NbZn₃ phase predominated with zinc grains between its grains; at still higher Nb contents the zinc grains dissolved.

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L 38428-66

ACC NR: AT6023737

Alloys containing 35.8—39.4% Nb had a structure consisting of fine NbZn₃ grains and large grains of an Nb₂Zn₃ phase, the amount of which increased with increasing Nb content. Alloy containing 52% Nb consisted mainly of homogeneous grains assumed to have a composition close to that of Nb₂Zn₃, and of fine inclusions, probably of the NbZn phase, within the grains. An alloy containing 55.57% Nb had a two-phase structure consisting mainly of the Nb₂Zn₃ phase and small grains of the NbZn phase. But the alloy with 59.39% Nb consisted of the NbZn phase and a small amount of Nb₂Zn₃ grains. All alloys with more than 60% Nb contained metallic niobium. In an alloy containing 74.4% Nb, the NbZn phase was located along the boundaries of niobium grains which constituted the bulk of the alloy. A further increase in niobium content decreased the amount of the NbZn phase, and in an alloy containing 97% Nb, the NbZn phase was located along the boundaries of niobium grains in the form of a fine network. Thermal and x-ray diffraction analyses confirmed the existence of the NbZn₃, NbZn₂, Nb₂Zn₃, and NbZn intermetallic compounds. The Nb₂Zn₃ compound had the highest microhardness (890 kg/mm²); the microhardness of the NbZn₃ compound was 302 kg/mm². Orig. art. has: 10 figures and 4 tables. [MS]

SUB CODE: 11/ SUBM DATE: none/ OTH REF: 003/ ATD PRESS: 5043

Card 2/2

GOBLIK, V.F.

Toward new production achievements. Gidroliz. i lesokhim.
prom. 14 no.8:11-12 '61. (MIRA 16:11)

1. Perechinskiy lesokhimicheskiy zavod.

GOBLOS, Janos; SZABO, Marton; RIPPEL, Geza

Hungarian-made condensers of high reliability. Hir techn 14
no.2:73-75 Ap '63.

1. REMIX Radiotechnikai Gyar.

1. GOBOCHKINA, Y.E.

2. USSR (600)

4. Headgear

7. Struggle for one hundred per cent, first grade production output. beg. prom.
no. 11, 1952

9. Monthly List of Russian Accessions, Library of Congress, ~~February~~ 1953. Unclassified.

GOLBORKOV, B. B.

1972

9042* (Russian) Cross-Sections for Photo-production of π^+ -Mesons as Dependent on Mass Numbers of Nuclei. Zavisimost' sechenii fotoobrazovaniya π^+ -mезонов ot massovykh chisel iader. B. B. Golborkov, Y. I. Goltanski, O. A. Karpukhin, A. V. Kutserev, and V. V. Pavlovskii. Doklady Akademii Nauk SSSR, v. 112, Jan-Feb. 1957, p. 37-40.

Cross-sections were studied as influenced by the γ -quanta of retarded radiations from various nuclei. The maximum energy of the spectrum of the retarded radiation varied between 170 and 340 m.e.v.

51

RMR

3/051/62/013/003/009/017
EO39/E420

AUTHORS: Nurmukhametov, R.N., Gobov, G.V.

TITLE: The luminescence spectra of fluorene

PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 676-682

TEXT: Data in the literature on the luminescence of fluorene and the nature of its impurities is contradictory, hence the luminescent spectra of fluorene, anthracene and carbazole in solution with n-heptane and n-octane were investigated by Shpol'skiy's method and also in the crystalline form at 77°K. These spectra possess fine structure and it is possible to identify both the substance and its impurities. The samples used were purified by a number of different physical methods; multiple sublimation, recrystallization and zone melting. A СВШ-250 (SVDSH-250) lamp was used as a source of exciting light together with a Bausch and Lomb monochromator for investigating the effect of excitation by different wavelengths. Absorption spectra were obtained using a Xenon lamp with a continuous spectrum in the range 2400 to 4500 Å. Details of the vibration analysis of the luminescent and absorption spectra are Card 1/2

The luminescence spectra ...

S/051/62/013/005/009/017
E039/E420

given and presented in tables. The presence of anthracene as an impurity in the fluorene is shown from the spectral analysis. There are 1 figure and 3 tables. *1c*

SUBMITTED: September 16, 1961

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13503

S/051/62/013/006/024/027
E039/E120

34 3700
34 3700

AUTHORS: ~~Gobov, G.V.~~, Kalimbet, A.Z., Fedotov, A.P., and Sheremet'yev, G.D.

TITLE: Polarisation of the quasilinear luminescence spectra of perylene in the electric field at 77 °K

PERIODICAL: Optika i spektroskopiya, v.13, no.6, 1962, 879

TEXT: This work was undertaken in order to observe the optical effects associated with radiation from electrets and to study the kinetics of the electret condition. Perylene was chosen because of its extensive cloud of π -electrons, which under the action of an electric field might produce a noticeable effect on its luminescent spectrum. In the absence of an electric field the luminescence of perylene in n-heptane observed at right angles to direction of the exciting beam (366 mmk natural light) is 32% polarised. The degree of polarisation along the line of excitation is zero. When a solution of perylene in n-heptane is frozen in an electric field of 25 kV/cm the luminescence observed along the line of excitation is 26% polarised. An investigation of the

Card 1/2

Card 2/2.

GOBOV, G.V.

Spectroscopy of frozen crystalline solutions of biphenyl polyenes
and polyphenyls. Part 2. Opt. i spektr. 15 no.3:362-370 S '63.
(MIRA 16:10)

S/046/63/027/001/006/043
B163/B180

AUTHOR: Gobov, G. V.

TITLE: Absorption and luminescence spectra of stilbene and tolane
in frozen crystalline solutions at 77°K

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 27.
no. 1, 1963, 11-14

TEXT: The absorption, fluorescence, and phosphorescence tolane spectra of stilbene and tolane, frozen in n-paraffin (from hexane to undekane) solutions, were taken in a ISP-28 (ISP-28) quartz spectrograph. Filtered radiation in the wave number range $1000-3000 \text{ cm}^{-1}$ from the lamp CERU-250 (SVDSH-250) or the xenon lamp XCU-1000 (DKSSH-1000) was used. The position of the lines could be determined with an accuracy of 10 cm^{-1} . The tolane was carefully purified by zone melting. The sharpest spectra were obtained with n-octane as solvent. The fluorescence spectrum of stilbene consists of 5 groups; Table 1 lists the sharp ($10 - 20 \text{ cm}^{-1}$) lines of the first three. The frequencies of all these lines in this fluorescence spectrum can be interpreted by means of 6 vibrational

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Absorption and uminescence spectra of ...

S/048/63/027/001/006/043
B163/B180

frequencies of the non-excited stilbene molecule. The frequencies for interpreting the spectra of tolane are also given. The fluorescence and absorption spectra are in both cases nearly symmetrical. The frequencies of 998 and 1600 cm^{-1} which the stilbene and tolane spectra have in common, are ascribed to the natural vibrations of the phenyl rings. The periodicities in the spectra (1640 cm^{-1} for stilbene, 2232 cm^{-1} for tolane) coincide with the characteristic oscillation frequencies of the C = C and C \equiv C group, respectively. There are 2 figures and 2 tables.

Card 2/2

BOLOTNIKOVA, T.N.; GOBOV, G.V.

Emission spectra of certain polyphenyls and diphenyl polyenes.
Izv. AN SSSR Ser. fiz. 27 no.5:683-685 My '63.

(MIRA 1616)

(Unsaturated compounds—Spectra)
(Paraffins—Spectra)

L 19471-63

ENP(j)/EPF(c)/EWT(m)/BDS

Pc-L/Pr-L

RM/WH/WHY

ACCESSION NR: AT3002192

S/2941/63/001/000/0036/0043

AUTHORS: Gobov, G. V.; Bolotnikova, T. N.

~~X~~ B

TITLE: Spectroscopy of frozen crystalline solutions

SOURCE: Optika i spektroskopiya; sbornik statey. v. 1: Lyuminentsentsiya. Moscow, Izd-vo AN SSSR, 1963, 36-43

TOPIC TAGS: luminescence, absorption, spectra, polyenes, hydrocarbons, energy level

ABSTRACT: A study has been made to determine the luminescence and absorption spectra of diphenyl-, triphenyl-, and quaterphenyl-polyenes.⁷ The method was first used by E. V. Shpol'skiy (UFN, 71, 2, 1960) and consists of investigating the sharp luminescence spectra of frozen n-paraffin solutions condensed in aromatic hydrocarbons. For the diphenyl, the largest luminescence spectra were found in hexane, heptane, and octane solutions with a band width of 50 cm⁻¹. The continuous absorption spectra of triphenyl were found to lie between 2400 and 3200 Å and for the quaterphenyl, between 2600 and 3400 Å. The authors contend that the fluorescence spectra of these polyenes permit the tracing of changes in the

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L 19471-63

ACCESSION NR: AT3002192

molecular energy levels arising from line broadening of the molecules on one of the phenolic groups. "The authors express their gratitude to E. V. Shpol'skiy."
Orig. art. has: 6 tables and 3 figures.

ASSOCIATION: none

SUBMITTED: 28May62

DATE ACQ: 19May63

ENCL: 00

SUB CODE: PH

NO REF SOV: 007

OTHER: 008

Card 2/2

Author: VOROB'YAN, B.R.; SHCHERBINA, L.I.

Electronic and vibrational spectra of some arylatrylenes
at 77°K. Zhur. fiz. khim. 38 no.5:1142-1147 1962.
(Mik. 18-12)

1. Fiziko-khimicheskiy institut imeni Karpeva. Submitted
May 3, 1962.

L 34878-65 EFF(c)/EPA(s)-2/ETP(j)/EWA(c)/EWT(l)/EWT(m) Pc-l/Pr-l IJP(c) RM

ACCESSION NR: AP5005035

S/0051/65/018/002/0227/0235

AUTHOR: Nurmukhametov, R. N.; Goboov, G. V.

TITLE: Influence of the hetero-atom on the luminescence of compounds containing a biphenyl nucleus

SOURCE: Optika i spektroskopiya, v. 18, no. 2, 1965, 225-235

TOPIC TAGS: luminescence, heteroatom, diphenyl compound, luminescence spectrum, vibrational analysis, phosphorescence, conversion probability

ABSTRACT: The authors investigated the luminescence spectra of solutions of fluorine, diphenylene oxide, diphenylene sulfide, carbazole, diphenylamine, and diphenyl sulfide at 77K. To obtain spectra with maximum structure, the Shpol'skiy method was used (E. V. Shpol'skiy, Usp. fiz. nauk, v. 71, 215, 1960) for the first four compounds in hexane and in heptane. The luminescence was excited in different sections of the spectrum by a DRSh-250 lamp used in conjunction with a monochromator, and also in conjunction with filters for the mercury lines. The absorption spectra were taken in the light of a DRSh-1000 lamp and photographed with ISP-28 and Hilger spectrographs. The results have disclosed an appreciable

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ACCESSION NR: AP5005035

similarity between the vibrational structure of these spectra, especially the phosphorescence spectrum. A vibrational analysis has been made and the fundamental frequencies have been assigned to different types of vibrations. The nature of the electronic transitions is analyzed, and the influence of the hetero-atom on the electronic levels and on the frequencies of some vibrations which are active in the emission spectra is traced. It is shown that the interaction between the hetero-atom and the biphenyl nucleus leads to spectral changes of the same character as are observed for the corresponding series of mono-substitutes of benzene and diphenyl compounds. When C is replaced by O, S, and N, a successive decrease of the difference in energy between the S^*_1 and T levels is observed in all three series of compounds. The introduction of the N atom, and especially of the S atom, greatly increases the probability of $S^*_1 \rightarrow T$ conversion. Orig. art. has: 2 figures and 5 tables.

ASSOCIATION: None

SUBMITTED: 14Oct63

ENCL: 00

SUB CODE: DP, OC

NR REF SOV: 006

OTHER: 011.

Card 2/2

GOBOVA, G.G.

----- Arousing the cognitive activity of students in chemistry lessons,
Khim. v shkole 17 no.1:64-69 Ja-F '62. (MIRA 15:1)

1. Tomskiy oblastnoy institut usovershenstvovaniya uchiteley.
(Chemistry--Study and teaching)

On the Issue, P. G.

"Insulin Therapy of Schizophrenia"
1956 Tbilisi

Translation M-3,053,166

GOBRONIDZE, Ye.G.

Psychotherapy for obsessive (psychasthenic) states, Trudy Tbil.
GIDUV 6:179-184 '62. (MIRA 16:2)
(PSYCHOTHERAPY) (OBSESSIONS)

GOBUNIYA, L.K.

Mequicardium beds. Seob.AN Gruz.SSR 8 no.8:537-540 '47. (MLRA 9:7)

1.Akademiya nauk Gruzinskey SSR, Institut geologii i mineralogii, Tbilisi.
Predstavlene deystvitel'nykh chlenov Akademii L.Sh.Davitashvili.
(Mekva Valley--Paleontology, Stratigraphic)

GOBZ, R.N., inzh.

Methods of preventing dust from hammer crushers from entering shops.

Rats. i izobr. predl. v stroi. no.3:80-82 '57. (MIRA 11:1)

(Dust--Removal) (Crushing machinery)

ERLIKHMAN, S.; GOBZA, R., insh.

Ventilization is trade unions' most urgent task. Okh.truda i
sots.strakh. no.1:42-44 Ja '60. (MIRA 13:5)

1. Nachal'nik proyektno-naladochnogo upravleniya "Glavsantekmon-
tasha" (for Erlikman).
(Ventilation)

GOBZA, R. N.

GOBZA, R. N., Inzhener i, VEREVIN, F. P., Inzh., SIMONOV, M. V., Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya I Tekhnicheskikh Issledovaniy
(VTIS) Mintyazhstroya

Issledovaniye Effektivnosti Pylesadochnykh Komer NA Modelyakh

Page 52

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

GOBZA, R. N.

GOBZA, R. N., Inzh 1, VEREVIN, F. P. Inzh.

Vsesoyuznaya Kontora Tipovogo Proyektirovaniya i Tekhnicheskikh Issledovaniy
(KTIS) Mintyashstroya.

Ochistka Vozdukha ot Pyli, Inertsionnyye Pyleotdeliteli Page 53

SO: Collection of Annotations of Scientific Research Work on Construction, completed
in 1950. Moscow, 1951

SOV/124-57-3-3198

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 80 (USSR)

AUTHOR: Gobza, R. N.

TITLE: The Results of Field Investigations of Heating Systems With a Concentrated Air Delivery (Rezultaty naturnykh issledovaniy sistem otopleniya s sosredotochennym vypuskom vozdukha)

PERIODICAL: Tr. nauch. sessii Vses. n-i. in-ta okhrany truda, 1955, Nr 4, pp 83-106

ABSTRACT: The paper adduces the results of an investigation of heating systems having a concentrated air delivery in twelve different locales with a volume of 5000 to 500,000 m³. Some dependences obtained earlier by means of model simulation are refined.

I. A. Shepelev

Card 1/1

VAYNTRAUB, I.M., inzh.; ~~GOBZA, R.N., inzh.~~; KATSNEL'SON, G.A., inzh.;
KRASILOV, G.I., inzh.; ORENTLIKHER, P.B., inzh.; ERLIKMAN,
S.Ya., inzh.; VOLNYANSKIY, A.K., glav. red.; SOKOLOV, D.V.,
zam. glav.red.; TARAN, V.D., red.; SEREPYENNIKOV, S.N., red.;
MIKHAYLOV, K.A., red.; STAROVEROV, I.~~Y.~~, red.; VOLODIN,
V.Ye., red.; NIKOLAYEVSKIY, Ye.Ya., red.; SMIRNOV, L.I.,
inzh., nauchnyy red.; SKVORTSOVA, I.P., red. izd-va;
SHERSTNEVA, N.V., tekhn. red.

[Adjusting, control, and operation of industrial ventilation
systems] Naladka, regulirovka i ekspluatatsiya sistem pro-
myshlennoi ventilatsii. Pod red. S.IA.Erlikmana. Moskva,
Gosstroizdat, 1962. 555 p. (MIRA 15:9)

1. Russia (1917- R.S.F.S.R.) Glavnoye upravleniye sanitarno-
tekhnicheskogo montazha.
(Factories—Heating and ventilation)

GOBZA, R.N., red.; GELIN, M.M., red.; KRIVOSHEYEV, B.S., red.;
SORIN, Ye.Ye., red.; VENIKEYEVICH, L.A., red.;
AVER'YANOVA, L.B., red.

[Adjusting and planning systems of industrial ventilation
and air conditioning] Naladka i proektirovanie sistem pro-
myshlennoi ventilyatsii i konditsionirovaniia vozdukha;
tematicheskii sbornik. Moskva, TSentr. biuro tekhn. infor-
matsii, 1964. 157 p. (MIRA 17:12)

1. Moscow. Proyektnyy institut "Proyektpromventilyatsiya."

GOBZEN, V.R., aspirant

Effectiveness of some preparations against coccidiosis in calves.
Veterinariia 41 no.3:53-54 Mr '65. (NIRA 18:4)

1. Belorusskiy nauchno-issledovatel'skiy veterinarnyy institut.

LEMESH, Vladimir Filippovich; NAZAROV, Viktor Konstantinovich;
SHPAKOV, Aleksey Prokof'yevich; TARUSOVA, Yelizaveta
Fedorovna; LEMESH, Sof'ya Ivanovna; LEVINA, Zinaida
Moiseyevna; GOBZEN, Vera Vasil'yevna; DOMASHEVICH, O.P.,
red.; ZUYKOVA, V.I., tekhn. red.

[Composition and nutritive value of feeds in White Russia]
Sostav i pitatel'nost' kormov Belorussii. Minsk, Gos.izd-vo
sel'skokhoziaistvennoi lit-ry BSSR, 1962. 241 p.
(MIRA 17:1)

(White Russia--Feeds--Composition)

GOBZEMIS, A.; GOROBETS, V.; TIMOFEYEV, T.

Using electronic computers in traction calculations for determining the time of train movements in the runs between stops. Izv.AN Latv.SSR no.2:18-25 '63. (MIRA 16:4)

1. Institut elektroniki i vychislitel'noy tekhniki AN
Latviyskoy SSR.
(Railroads—Management) (Electric computers)

L 23090-66 EWT(d)/EWP(1) IJP(c) GG/BB/JKT(CZ)
ACC NR:AT5028452 SOURCE CODE: UN/2690/65/009/00/0149/0154

AUTHOR: Gobzemis, A. Yu.

ORG: none

TITLE: Synthesizing logical diagrams with ternary OR-NOT logical elements 160

SOURCE: AN LatSSR, Institut elektroniki i vychislitel'noy tekhniki. Trudy. v. 9,
1965. Avtomatika i vychislitel'naya tekhnika, 149-154

TOPIC TAGS: logical diagram, logical diagram synthesis

ABSTRACT: Logical diagrams whose inputs and outputs can have three different states (-1, 0, 1) are considered. In this system, a generalized OR-NOT function permits obtaining the completeness of the system. A five-point algorithm is developed for synthesizing single-step logical diagrams with n inputs (A_1, A_2, \dots, A_n) and one output f . Orig. art. has: 20 formulas and 3 tables.

SUB CODE: 12, 09 / SUBM DATE: none / ORIG REF: 005

Card 1/1

UDC: 62-507

KOB R. L., Juris; R. L. R. O., v. 1, 1964.

[Effective method in finishing work] Restoration of the
darba metodes. Riga, Latvijas Valsts izdevumi, 1964. 128 p.
[In Latvian] (Latvian)

ANDIN'SH, P. [Andina, P.]; GOLZEMIS, Yu. [Gobzemis, J.]; GORSHKOV, A.
MASTEROV, V.

Suggestions of Riga builders. Stroitel' 8 no.3:7-10 Mr '62.
(MIRA 15:8)
(Riga--Building--Technological innovations)

GOBZHILA, A.G. [Gobjila, A.G.]

Effect of paraffin on the stability of natural oil emulsions.
Izv.vys.ucheb. zav.;neft' i gaz 5 no.5:69-73 '62. (MIRA 16:5)

1. Issledovatel'skiy institut po bureniyu i dobyche nefti i
gaza, g. Kypina, Rumynskaya Narodnaya Respublika.
(Rumania--Emulsions) (Paraffin wax)

GOBZHILA, A. G. [Gobzhila, A. G.]

Investigation of natural water emulsifiers in crude oil in relation to the establishment of a basis for effective demulsifying agents for petroleum emulsions. Koll. zhur. 24 no.6:651-658 N-D '62. (MIRA 16:1)

1. Nauchno-issledovatel'skiy institut po bureniyu i dobyche nefti i gasa, g. Kypina, Rumyniya.

(Emulsions) (Petroleum—Refining)

POPESKU, F.S. [Popescu, F.S.]; GOBZHILA, A.G. [Gobjila, A.G.]

Studying the froth-forming properties of alkyl-hydroxy-aryl
polyglycol esters and alicyclic polyglycol esters. Izv. vysh.
ucheb. zav.; neft' i gaz 6 no.3:55-58 '63. (MIRA 16:7)

1. Issledovatel'skiy institut po bureniyu i dobyche nefti i
gaza, g. Kypina, Rumynskaya Narodnaya Respublika.
(Surface-active agents)

GOBZHILA, A.G.; VOYKULESKU, K.I. [Voiculescu, K.I.]; POPESCU, E.V. [Popescu, M.V.]

Use of epoxide coatings for the protection of main underground pipe systems. Lakokras.mat. i ikh prim. no.3:28-34 '63. (MIRA 16:9)

1. Laboratoriya korrozii Issledovatel'skogo instituta bureniya i dobychi nefi i gaza, g. Kypina, i Tsentral'naya issledovatel'skaya laboratoriya lakev i pechatnykh krasok, g. Bukharest Rumynskaya Narodnaya Respublika.

(Pipe, Steel--Corrosion) (Protective coatings)

POPESKU, F.S. [Popescu, F.S.] (Rumyniya); GOBZHILA, A.G. (Rumyniya)

Effectiveness of oxyethylated derivatives of cycloalkanoic acids and alkyl oxyaryl-formaldehyde resins during petroleum demulsification. Khim. i tekhn. topl. i masel 8 no.5: 22-26 My '63. (MIRA 16:8)

GOC, E.; KOTLICKA, G.N.; PALYS, J.; ROZKOWSKI, A.

Preparation techniques of a specific hydrogeological map
of the Upper Silesian Coal Basin. Przegl geol 11 no.5:
235-237 My '63.

1. Gornoslaska Stacja Terenowa, Instytut Geologiczny, Sosnowiec.

GOC, Jan, inz.

Testing the cutting property of tools. Tech praca 14 no.8:609-
611 Ag '62.

1. Vysoka skola technicka, Kosice.

POPPER, Ervin; GRECU, Ion; PITEA, Iulia; CHIOREAN, Lucia; GOCAN, Ileana

Contributions to the photometric determination of osmium.
Studii cerc chim 12 no.5:387-391 '64

1. Chair of Analytical, Faculty of Pharmacy, Medicopharmaceutical
Institute, Republicii St., no.12, Cluj.

GOC, J.

Blunting of ceramic cutting tools. Stor VST Kosice no.1:101.
113 '63.

1. Department of Machining Technology, Higher School of Technology,
Kosice. Submitted April 10, 1962.

PREDĂ, V.; MARTEI, Elena; BIRCU, O.; GOCAN, Marilena; GEORGESCU, I.

Role of the nervous system in the respiration of the regenerative tissues of *Triturus cristatus cristatus* Laur.
Studii cerc biol s. zool 16 no. 3:213-217 '64.

1. Chair of Biology, Medicopharmaceutical Institute, Cluj.

STANESCU, L.; GOCAN, S.; TERTAN, A.; MOTIU, A.; BOGATEANU, G.;
POP, O.

Study of some semiconductor characteristics of nickel chromite.
Bul stiint polit Cluj no.5:65-74 '62.

GOGIN, S.

Study on the formation of nickel cobaltite and its magnetic characteristics. Stetit Fiz tehn logi 14 no.2:323-450 '63.

GOCAN, Simion; STANESCU, Lucie

Study of some semiconductorial properties of the V_2O_5 - H_2O system.
Studia Univ B-B S. Math-Phys 10 no.1:105-113 '65.

LITEANU, Candin; GOCAN, Simion

Paper thermochromatography. Pt. 4. Rev chimie Roum 9 no.10:651-662 0 '64.

1. Faculty of Chemistry of the "Babes-Bolyai" University, and the Pedagogic Institute, Cluj.

COGAN, Simion, ...

Thermochromatography on paper. Pt. 5. Rev chimie (Bucharest) no. 11:715-725 N 1964.

1. Pedagogic Institute and Cluj University.

GOCAN, Simion; LITEANU, Candin

Thermochromatography on paper. Pt.5. Studii cerc chim 13
no.11:741-750 N '64.

1. Pedagogic Institute, Cluj, and "Babes-Bolyai" University,
Cluj, 1 Universitatii Street.

LITEANU, C.; GOCAN, S.

Thermochromatography on paper. Pt.4. Studii cerc chim 13
no.10:681-692 O '64.

1. Faculty of Chemistry of the "Babes-Bolyai" University,
and the Cluj Pedagogic Institute, 11 Arany Janos Street.

Material Responsibility

Material responsibility of civilian and military persons in the army. v. 1.
(GLASNIK, Vol. 11, No. 2, Feb. 1956)

SO: Monthly List of East European Accessions (EEA) 10 Vol. 6, No. 12, Dec. 1957
Incl.

Compensation for damages

Compensation for damages under the new Law of General Administrative Procedure,
p. 168.

(GLASNIK, Vol. 4, No. 3, May/June 1957)

SO: Monthly List of East European Accessions (EEAL) LC Vol. 6, No. 12, Dec. 1957
Uncl.

Poland/Chemical Technology - Chemical Industry and their
Application. Food Industry.

Abs Jour : Ref Zhur - Khimiya, No 10, 1959, 300-303.

Author : Goch, H., Szyzako, A., Wozniak, J.

Inst : -

Title : The Vitamin Value of Certain Preserves.

Orig Pub : Przem. spozywczy, 1958, 12, No 3, 300-303.

Abstract : There were submitted the results of the content analysis of vitamins A, B, B₂, PP, C and D-carotin in certain meat and meat-vegetable preserves, and also in fruit compotes. It was established that the examined preserves are a good source of the B-complex vitamins; the greatest amount of these vitamins is contained in veal and in English goulash; the least, in beef with buckwheat porridge. --
From the authors' resume.

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BOZYK, Zbigniew; GOCH, Halina

Determination of total vitamin C in ready-made meals. Chem anal 5
no.2:335-336 '60. (SKAI 10:3)

1. Ośrodek Naukowo-Badawczy Służby Żywnościowej. Zakład Badania
Środków Spożywczych Akademii Medycznej, Warszawa.
(Ascorbic acid) (Meal)

BOZYK, Zbigniew; GOCH, Halina

Studies on the pijanowski method of determining C vitamin.
II. Determination of the vitamin C content in cooked meals.
Rocz tech chem zywn 8:51-62 '61.

1. Ośrodek Naukowo-Badawczy Służby Żywnościowej i Zakład
Badania Środków Spożywczych, Akademia Medyczna, Warszawa.
Kierownik Zakładu: prof.dr. Stanisław Krauze.

6-0011 V
BULGARIA/Cultivated Plants - Potatoes, Vegetables, Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10839

Author : Raynkhod, Y., G'och, V.

Inst : -

Title : New, Improved Bulgarian Tomato Varieties.

Orig Pub : Ovoshcharstvo i Gradinarstvo, 1957, No 1, 44-47

Abstract : A comparative greenhouse trial, conducted in Bulgaria, of 6 Bulgarian varieties selected by Professor Daskalov, 4 widely used German varieties, and 4 Dutch heterozyse varieties has demonstrated the superiority of the following Bulgarian heterozyse varieties in yield: No 10 x Bizon, No 10 x Plovdivskiy konservnyy, and Kometa x Zarya. The German variety, Helfrucht, was in the fourth place. All the other ten varieties gave significantly lower yields. The Bulgarian varieties were outstanding for their heightened resistance to cladosporiosis.

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27

GOCHAKOV, B.G.; PROSKOVSKIY, A.M.; SHARMAGIY, Yu.V.; MAUER, A.A.

High-frequency wave trap filters with 50 to 330 kc. attenuation
band. Energ. i elektrotekh. prom. no.1:20-22 '62. (MIRA 15:6)

1. Krymenergo.

(Electric filters)

(Electric power distribution--Communication systems)

GOCHAKOVSKIY, V.P.

Structure and fluorescence of magnesium phthalocyanine adsorbates
on MgO , Al_2O_3 , ZnO and glass. Dokl. AN SSSR 110 no.3:408-410 S '56.
(MLRA 9:10)

1. Akademiya nauk SSSR, Institut biokhimii imeni A.N. Bukha. Pred-
stavleno akademikom N.V. Belevym.
(Phthalocyanine) (Adsorption)

Савалов Кетевина Саваловна (Саваловская). Кавалер орд. «Знак отличия». Уроженка Гурьев. 1946, 84 с. 11 табл. 6 фотографий. 1949, 28 с.

[illegible]

200 33. - 9. 1955.
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Киевские Кузнецкие Ремес-
ленники. Петроградскими Восточной Гру-
ппы. Благородные и Благородные.
Роль окладов и окладов.

1956. 299 с., 2 илл. А. 704-
АБАРТОВ.
СТАНОУАДНУ САСИУ ПРН РОУОСАРЕ
1956. 1955. 26.12.

[illegible]

изучает в Ленинградском 1938.
гос. ун-те. 1940.

Константин Леонидович Алексеев.
К вопросу о теории Янко-Шварца
1922. Греческая Тангра Типо-
граф, 1944, 224.

гильдии в Грузии. 1936.
Зам. 1936. 29.6.

008. 9353000 67402 602606 110 с., 8 рс. (БННН) was a cybropos.
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Hacr. Germ., v. 2, 1937. Poisson in ar-
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L. (*L.*) *Sp.*

Aug. 1934
Aug. 1935, 2.11.
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Aug. 1937, 2.11.

Ученые Елена Яковлева-
и др. обнаружили, что в среднем за
год в России умирает 1,5 миллиона человек. В основном это люди, страдающие от сердечно-сосудистых заболеваний. В среднем за год в России умирает 1,5 миллиона человек. В основном это люди, страдающие от сердечно-сосудистых заболеваний.

соединяет в единую систему (батарейный и автономный источники питания) в различных условиях эксплуатации автом. (пр. телем. станц. бат-рии).

ISSUES 1922-1937. Prices as per. vol.
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RABINOVICH, I.B.; NIKOLAYEV, P.N.; GOCHALIYEV, E.E.; TRET'YAKOVA, N.N.

Isotopic effect on the liquid-vapor equilibrium of binary systems
containing deuterium compounds. Dokl. AN SSSR 110 no.2:241-244
S '56. (MLRA 9:12)

1. Gor'kovskiy gosudarstvennyy universitet imeni N.I. Lobachevskogo.
Predstavleno akademikom A.N. Frumkinym.
(Phase rule and equilibrium)
(Deuterium compounds)

S/020/60/132/04/38/064
B004/B007

5-4600

AUTHORS: Gochaliyev, G. Z., Zalkind, Ts. I., Veselovskiy, V. I.

TITLE: The Potential of the Platinum Electrode in an Irradiated Sulfuric Acid Solution

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 4, pp. 872-875

TEXT: In earlier papers (Refs. 1-4) the authors found that the potential of a Pt electrode in irradiated 0.8 N H_2SO_4 (irradiation dose $2 \cdot 10^{15}$ ev/cm².sec) assumes a value close to that of the potential of the H electrode. The present paper deals with the results obtained by a more intensive irradiation ($6.1 \cdot 10^{16}$ ev/cm².sec). The experiments were carried out with a Co^{60} radiation source, and the method is described in Refs. 2 and 3. Fig. 1 shows the dependence of the potential of the Pt electrode in oxygen-free 0.8 N H_2SO_4 on the duration of irradiation. Also with this intensity, selectivity of the Pt electrode with respect to the reducing radiolytic products was observed. The potential assumes a value of between

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The Potential of the Platinum Electrode in
an Irradiated Sulfuric Acid Solution

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10 and 20 mv, which remains constant up to a dose of $2 \cdot 10^{20}$ ev/cm^3 and then rises up to 0.85 v (Fig. 1). For the oxidation of the reducing radiolytic products and the reduction of the oxidizing radiolytic products, occurring in the irradiated solution, the authors derive equations for the currents I_R and I_{Ox} . As the reaction constant k'_R is considerably greater than k'_{Ox} because of the selectivity of the Pt electrode, the potential observed results. By the escape of H into the gaseous phase the stoichiometric ratio between the reducing and the oxidizing products is, however, disturbed, which leads to a positive shifting of the potential in the case of high doses. Fig. 2 shows the dependence of the depolarization current at 0.4 v on the duration of irradiation. The course of this curve is explained as follows: Due to the selectivity of the Pt electrode, the oxidation of H at first predominates. As a result of the escape of H into the gaseous phase, the reduction of H_2O_2 is accelerated, the total current ($I_H \sim I_{\text{H}_2\text{O}_2}$) decreases and attains negative values in the case of doses higher than $2 \cdot 10^{20}$ ev/cm^3 . If the experiment is carried out in a vessel that is hermetically sealed and completely filled with the solution so that no gaseous phase is able

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The Potential of the Platinum Electrode in
an Irradiated Sulfuric Acid Solution

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to form and no hydrogen can escape, a potential of +20 mv quickly forms, which remains constant throughout the experiment (20 h)(Fig. 3). Because of the increasing concentration of the oxidizing products, the polarization current quickly decreases (Fig. 4). The ionization of the H on the Pt electrode, which is formed by radiolysis, may therefore be carried out in the case of a steady potential only if the reduction of the oxidizing products takes place at the same rate (e.g., on a second electrode which is selective for these products). At the same time, a current will flow through the outer circuit. There are 4 figures and 7 references: 6 Soviet and 1 English.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physico-chemical Institute imeni L. Ya. Karpov)

PRESENTED: February 26, 1960, by A. N. Frumkin, Academician

SUBMITTED: February 25, 1960

Card 3/3

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B138/B101

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AUTHORS: Zalkind, Ts. I., Miller, N. B., Gochaliyev, G. Z.,
Veselovskiy, V. I.

TITLE: Radiation electrochemical processes in aqueous electrolyte
solutions

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 62, abstract
10B416 (Tr. Tashkentsk. konferentsii po mirn. ispol'zovaniyu
atomn. energii, 1959, v. 1. Tashkent, AN UzSSR, 1961, 347-354)

TEXT: By means of electrochemical measurements on Pt-, Au- and Hg-electrodes, a study has been made of the radiation electrochemical processes that occur in solutions of H_2SO_4 and of H_2SO_4 with additions of $U(4+)$, $U(6+)$, $(COOH)_2$, during Co^{60} γ radiation. From the results it is concluded that both molecular hydrogen and H atoms are ionized. (Their stationary concentration at a dose rate of $6.1 \cdot 10^{16}$ ev/cm² sec was assessed as $2.3 \cdot 10^{-5}$ M; this diminished with pH). On the Hg-electrode in the presence of O_2 the HO_2 radical is reduced. It was found that if the solutions of
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